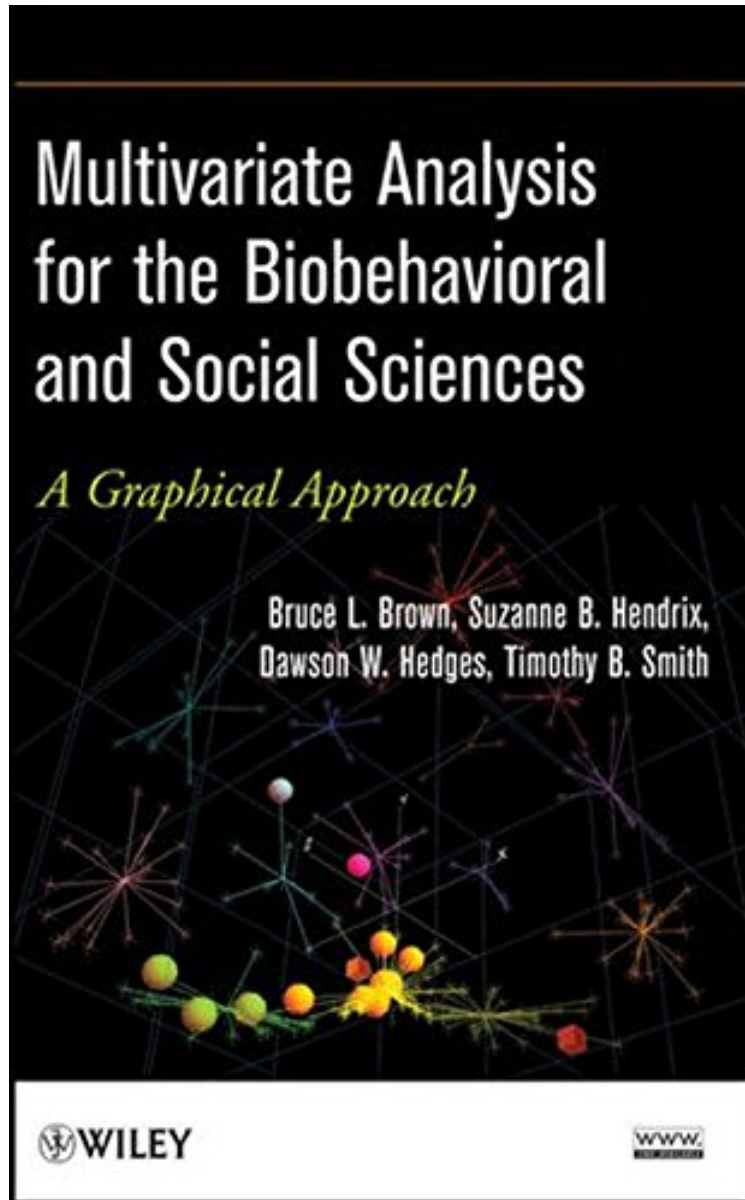


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Multivariate Analysis for the Biobehavioral and Social Sciences: A Graphical Approach

Bruce L. Brown, Suzanne B. Hendrix, Dawson W. Hedges, Timothy B. Smith
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Bruce L. Brown, Suzanne B. Hendrix, Dawson W. Hedges, Timothy B. Smith : Multivariate Analysis for the Biobehavioral and Social Sciences: A Graphical Approach before purchasing it in order to gage whether or not it would be worth my time, and all praised Multivariate Analysis for the Biobehavioral and Social Sciences: A Graphical Approach:

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2 of 2 people found the following review helpful. An unbelievable feat of writing style and depth -- one textbook to rule them all!
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Easily one of the best textbooks on multivariate analysis for all levels of students. The chapter titled "the seven habits of highly effective quants" is probably the most succinct and best introduction to "basic statistics" that's suitable for a wide range of readers (absolute novice to a seasoned statistician -- tailored to everyone!). Quite unbelievable how good is the text till you actually read it. The chapter on matrices is the best I have come across in any textbook on the topic.
At the time of writing this review, I am still going through the book.
The best part of the book is the simplicity and style of writing. Easy as easy can be, yet the authors did not sacrifice anything on the complexity bit of the theory. You have to read this book to believe how a group of authors can write a complex book on statistics for social sciences with a style as lucid and a pace as fast as a thriller!

An insightful guide to understanding and visualizing multivariate statistics using SAS, STATA, and SPSS
Multivariate Analysis for the Biobehavioral and Social Sciences: A Graphical Approach outlines the essential multivariate methods for understanding data in the social and biobehavioral sciences. Using real-world data and the latest software applications, the book addresses the topic in a comprehensible and hands-on manner, making complex mathematical concepts accessible to readers. The authors promote the importance of clear, well-designed graphics in the scientific process, with visual representations accompanying the presented classical multivariate statistical methods. The book begins with a preparatory review of univariate statistical methods recast in matrix notation, followed by an accessible introduction to matrix algebra. Subsequent chapters explore fundamental multivariate methods and related key concepts, including: Factor analysis and related methods
Multivariate graphics
Canonical correlation
Hotelling's T-squared
Multivariate analysis of variance (MANOVA)
Multiple regression and the general linear model (GLM)
Each topic is introduced with a research-publication case study that demonstrates its real-world value. Next, the question "how do you do that?" is addressed with a complete, yet simplified, demonstration of the mathematics and concepts of the method. Finally, the authors show how the analysis of the data is performed using Stata, SAS, and SPSS. The discussed approaches are also applicable to a wide variety of modern extensions of multivariate methods as well as modern univariate regression methods. Chapters conclude with conceptual questions about the meaning of each method; computational questions that test the reader's ability to carry out the procedures on simple datasets; and data analysis questions for the use of the discussed software packages.
Multivariate Analysis for the Biobehavioral and Social Sciences is an excellent book for behavioral, health, and social science courses on multivariate statistics at the graduate level. The book also serves as a valuable reference for professionals and researchers in the social, behavioral, and health sciences who would like to learn more about multivariate analysis and its relevant applications.

From the Back Cover
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About the Author
Bruce L. Brown, PhD, is Professor of Psychology at Brigham Young University. He has over thirty years of academic experience working with large scale data analysis methods, and he currently focuses his research on applying these methods to cognitive neuroscience and vocal emotion.
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